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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|------------------|----------------------|-------------------------|------------------|
| 10/796,119 | 03/10/2004 | Tomio Sato | 02410360AA | 2469 |
| 30743 7 | 590 04/04/2005 | | EXAMINER | |
| WHITHAM, CURTIS & CHRISTOFFERSON, P.C. | | | FISHMAN, MARINA | |
| 11491 SUNSET HILLS ROAD SUITE 340 | | ART UNIT | PAPER NUMBER | |
| RESTON, VA | RESTON, VA 20190 | | 2832 | |
| | | | DATE MAILED: 04/04/2005 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | Application No. | Applicant(s) | | | |
|--|--|------------------------------|--|--|--|
| | 10/796,119 | SATO, TOMIO | | | |
| Office Action Summary | Examiner | Art Unit | | | |
| | Marina Fishman | 2832 | | | |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). | | | | | |
| Status | | | | | |
| 1) Responsive to communication(s) filed on <u>28 February 2005</u> . | | | | | |
| 2a)⊠ This action is FINAL . 2b)□ Thi | | | | | |
| ,— ., | Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | |
| Disposition of Claims | | | | | |
| 4) ☐ Claim(s) 1-4,6 and 7 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-4,6 and 7 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. | | | | | |
| Application Papers | | | | | |
| 9) The specification is objected to by the Examiner. | | | | | |
| 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. | | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | | | | |
| Priority under 35 U.S.C. § 119 | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | |
| Attachment(s) 1) Notice of References Cited (PTO-892) | 4) 🔲 Interview Summary | (PTO-413) | | | |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date | | | | | |
| 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date | 5) Notice of Informal P 6) Other: | Patent Application (PTO-152) | | | |

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DETAILED ACTION

General status

1. This is a Final Action on the Merits. Claims 1 – 4, 6 and 7 are pending in the case and are being examined.

Priority

2. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Japan on March 10, 2003. It is noted, however, Applicant has not filed a certified copy of the Japanese applications (only front page is received) as required by 35 U.S.C. 119(b).

The letter titled "Submission of Priority Document" dated July 14, 2004, was received, however, the priority documents were not received with the letter.

Specification

3. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to **a single paragraph** on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

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Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 1 3 are rejected under 35 U.S.C. 102(e) as being anticipated by Sato et al. [US 6,586,695].

Sato et al. disclose a keyboard apparatus comprising:

- a frame [6,7,10];
- a link bearing [10, Figure 5a 6] provided on the frame
 having elongated hole [10a];
- a link [4] slidably engaged with the elongated hole of the link
 bearing at the first end [22];
- a stopper [31] provided on the frame, which when in contact with a second end [30] of the link, positions the link at an assembling position in the elongated hole; wherein the link is disposed at the assembling position in the elongated hole when a key top [20] is assembled to the link.

Regarding Claim 2, Sato et al. disclose the stopper [31] has an inclined face [Figures 5A-C], wherein the link laid down on the frame is moved down along the

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inclined face of the stopper by its own weight so that the link is automatically set in the assembling position.

Regarding Claim 3, Sato et al. disclose the frame [7, 6,10] constitute by a metal plate, wherein the link bearing and the stopper are formed by subjecting the metal plate to a sheet metal process so that a metal base frame for the keyboard apparatus is formed [Column 8, lines 18 –21].

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 4, 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sato et al. [US 6,586,695].

Regarding Claims 4, 6 and 7, the recitation "a link bearing formed by subjecting the metal plate to a sheet metal process" and "the link is formed by subjecting a metal wire rod to a bending process" (Claim 4); "the link bearing is formed by subjecting the metal plate to a boring process and cut-raising process" (Claim 6) and "the link bearing is formed by subjecting the metal plate to an ejection process" (Claim 7), all are method steps in article claim and are obvious to one of ordinary skill in the art and also these recitations do not carry patentable weight unless the method steps results in a patentably distinct article. A process limitation cannot serve to patentably distinguish the product over the prior art, in the case that the product is the same, or obvious over the

prior art. See Product by process in MPEP \$2113 and 2173.05(p) and In re Thorpe, 227 USPQ 964, 966 (Fed. Cir. 1985).

Response to Arguments

8. Applicant's arguments with respect to claims 1 –4, 6 and 7 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marina Fishman whose telephone number is 571-272-1991. The examiner can normally be reached on 7-5 M-T.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin Enad can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Marina Fishman March 29, 2005

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